

**External
memo**

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To Carmen Osbourne

Copied to

From Richard Floyd

Ref/Job Number 0021263

Subject Bushfire Recommendations

Date 0/00/00

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Carmen,

I have been unable to review Figure 1 of CMP but I have assumed this is contained within the within the Powerpoint presentation that you have provided. Nevertheless I make the following Asset Protection Zone (APZ) recommendations with regard to the areas proposed for reservation:

- ❑ The APZ to the 20m wide riparian buffer and Wyong Daisy reserve should have a further buffer of 30m. This APZ should consist of 10m outer protection area (OPA) and 20m Inner Protection Area (IPA).
- ❑ The drainage line in the north western corner of the site should have an APZ width of 35 metres consisting of 15m OPA and 20m IPA.
- ❑ The large drainage line in the central northern sections of the site will require a 30metre APZ from the northern boundary of the riparian buffer consisting of 10m OPA and 20 metres IPA. A 35m APZ will be required from the southern boundary of this creek line consisting of 10m OPA and 25m IPA.
- ❑ The drainage line occurring along the eastern boundary of the site will require an APZ of 35m from the outer edge of riparian buffer. This will consist of a 10m OPA and a 25m IPA.
- ❑ The drainage line that bisects the existing school site will require a 35m APZ if it is to be revegetated on your site. Again this will consist of a 10m OPA and a 25m IPA from the edge of any 50m (or other width) buffer.
- ❑ The western boundary of the proposed bushland reserve will require APZ width of 30 metres consisting of 10m OPA and 20m IPA.

Please review *Figure 1* of this memo illustrating the boundary to stage 1 (proposed reserved areas included) and the required APZs.

Explanation of APZ Components

As you are, the APZ may contain infrastructure such as roads, footpaths or appropriately maintained landscaping. The following recommendations represent the minimum requirements for the IPA and OPA of APZs.

The OPA may contain the following components:

- ❑ All trees must be maintained in such a manner that the vegetation canopies of trees or shrubs are non continuous;
- ❑ Fine fuels should be kept to a level where fire intensity will not impact on adjacent development (approximately 8 tonnes per hectare);

The IPA may contain the following:

- ❑ There must be minimal fine fuels at ground level;
- ❑ Any retained vegetation within the IPA must not provide a path for transfer of fire to the development.

Small numbers of shrubs and trees are allowed within the IPA provided:

- ❑ They do not touch or overhang the building;
- ❑ Are well spaced (not forming a continuous canopy);
- ❑ Are not species that retain dead material (leaves and bark) in short periods of time;
- ❑ Are located a safe distance from proposed structures so they will not ignite structures by direct flame contact or radiant heat.

Should you have any questions relating to this memo please contact me on the number below.

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